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Figure 1

abcA1

ccctgtggaatgtacctatgtgagtttcagaaattctcaa
aatacgtgttcaaaaatttctgcttttgcaccttgggacacctcagaaa
acttattaacaactgtgaatatgagaaatacagaagaaaataataagccc
tctatacataaatgcccagcacaattcattgttaaaaaacaaccaaact
cacactactgtatcttcattatctgtactgaaagcaaatgctttgtgacta
ttaaatgttgcacatcattcattcactgtatagtaatcattgactaaagc
catttgtctgtgttttcttcttgtggttgtatatatcaggtaaaatattt
tccaaagagccatgtgtcatgtaatactgaaccactttgatattgagaca
ttaatttgtacccttgttattatctactagtaataatgtaatactgtaga
aatattgctctaattcttttcaaaaattgttgcaccccccttagaatgttt
ctatttccataaggatttaggtatgctattatcccttcttataccctaag
atgaagctgttttgtgctcttctgttcacattggccctcattccaagca
ctttaagc

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Figure 2

abcA2

ccttcaacacggacacg
ctctgctgaccacccagagctggggccagggaggacacgctccactgacca
cccagagctggggccagggactcaacaatggggacagaagtccccagtg
ctgccagggcctggagtgagggttcaggaccaaggggcttctggtcctcc
agccccctgtactcggccatgccctgcgggtcactgcgggttgccgccccctaa
ttgtgccaaaggctgacccggccccgggctgcgtacacccttgccctgctt
tgcccttaaagcctcgggggtctgcccggccccctcgccccctgcctggcactg
ctcaccgccccaggcgacgcgggctggaccaggcactgctggcctttctc
ctgcccggcctcggaaccagcttttctctcttaagatgaaggctgatgcc
gagagcgggctgtgggaggagctgggtcagtccttatttttgcctt
gagaagaggctcctctggccctgctctcctgcagggaggtggctgtcccg
cgggaagccatcagcttggggccagctgg**gcaggtggcaggaatggagaagc**
t

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Figure 3

abcA3

aaggaaaagtacgg
cgtggacgactactccgtgagccagatctcgctggaacaggtcttcctga
gcttcgcccacctgcagccgccaccgcagaggagggcgatgaggggtg
gcggctgtctcgccatcaggcagggacaggacgggcaagcagggcccatc
ttacatcctctctctccaagtttatctcatcctttatttttaatcacttt
tttctatgatggatatgaaaaattcaaggcagtatgcacagaatggacga
gtgcagcccagccctcatgcccaggatcagcatgcgcacatctccatgtctg
catactctggagttcactttcccagagctggggcaggccgggcagtcctgc
gggcaagctccgggggtctctgggtggagagctgacccaggaagggtgca
gctgagctgggggttgaatttctccaggcactccctggagagaggacca
gtgacttgtccaagtttacacacgacactaatctccctggggaggaagc
gggaagccagccaggttgaactgtagcgaggccccaggccgccaggaat
ggaccatgcagatcactgtcagtgagggaagctgctgactgtgattagg
tgctgggggtcttag

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Figure 4

abcA4

gagcatcatcagaaaagggagggctgtgggtcctcacat
cccacagcatggaagaatgtgaggcactgtgtacccggctggccatcatg
gtaaagggcgccctttcgatgtatgggcaccattcagcatctcaagtccaa
at ttggagatggctatatcgtcacaatgaagatcaaatccccgaaggacg
acctgcttcctgacctgaacctgtggagcagttcttccaggggaacttc
ccaggcagtggtgcagagggagaggcactacaacatgctccagttccaggt
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acagcctgctcatcgaggagtactcagtcacacagaccacactggaccag
gtgtttgtaaattttgctaaacagcagactgaaagtcacacacactccctct
gcacctcgagctgctggagccagtcgacaagccaggactgatctttca
caccgctcgcttcctgcagccagaaaggaactctgggcagctggagggcgca
ggagcctgtgcccataatgggtcatccaaatggactggcccagcgtaaatga
ccccactgcagcagaaaacacacacagaggagcatgcagcgaattcaga
aagaggtctttcagaaggaaaccgaaactgacttgctcacctggaacacc
tgatggtgaaaccaacaaatacaaaatccttct**ccagacccagaaacta**
gaaaccc

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Figure 5

abcA5

aatgc

aagccgtcaggaaagtttttcttctattttggcttataaaattcctaagg
aagatgttcagtcacctttcaccaatcttttttaagctggaagaagctaaa
catgcttttgccattgaagaatatagcttttctcaagcaacattggaaca
ggtttttgtagaactcactaaagaacaagaggaggaagataatagttgtg
gaacttttaaacagcacacttttggtgggaacgaacacaagaagatagagta
gtattttgaatttgtattgttcggtctgcttactgggacttctttctttt
tcacttaattttaactttggttttaaaaagttttttattggaatggtaact
ggagaaccaagaacgcacttgaaatttttctaagctccttaattgaaat
gctgtggttgtgtgttttgccttttcttaataaaaacgtatgtataattaa
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tcttcttaataaagtacgtaatgttccaatctaaataaaaaactaataca
taactaatgcatagaaaagatacataaagcaatgtgaaagtttcttgctt
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aaaagctgaagtgttaag

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Figure 6

abcA6

agttgtgttttgtgctgagcctcctgggaaactcacctgtcttgctc
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gcaggcaatccaggcagtcgttaaaaacacagagagaggtgtcctcctga
ccaccataacctggctgaggcggaagccttgtgtgaccgtgtggccatc
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ttcttagagctttctaaagaacaggaagtaggaaattttgatgaagaaat
tgatacaacaatgagatggaaactcctccctcattcagatgaaccttaaa
acctcaaacctagtaattttttgttgatctcctataaaacttatgttttat
gtaataattaatagtatgtttaatttttaaagatcatttaaaattaacatc
aggatataattttgtaaatttagttaacaaatacataaatttttaaaattatt
cttcctctcaaacataggggtgatagcaaacctgtgataaaggcaataca
aaatattagta**aagtcacccaaagagtcaggcac**

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Figure 7

abcA7

atagcatggaggagtgtgaagcgctctgctcgcgcctagccatcatg
gtgaatgggcggttccgctgcctgggcagcccgaacatctcaagggcag
attcgcggcggtcacacactgacctgcgggtgcccgccgcaaggtccc
agccggcagcggccttcgtggcgcccgagttccctgggtcggagctgcgc
gaggcacatggaggccgcctgcgcttccagctgccgccgggagggcgctg
cgccctggcgcgctcttggagagctggcgggtgcacggcgagagcacg
gcgtggaggacttttccgtgagccagacgatgctggaggaggtattcttg
tacttctccaaggaccaggggaaggacgaggacaccgaagagcagaagga
ggcaggagtgggagtggaccccgccaggcctgcagcaccacaaacgcg
tcagccagttcctcgatgacctagcactgccgagactgtgctctgagcc
tccctcccctgcggggcgcggggaggccctgggaatggcaagggaagg
tagagtgcctaggagccctggactcaggctggcagaggggctggtgccct
ggagaaaataaagagaaggc**tggagagaagccgtggtggtgaaa**

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Figure 8

abcA8

gctggggtgattttgaggaggattttg
atccctcagtggaagtgggaagctcctccccaggaagagccttaaaacccc
aaattctgtgttcctgtttaaacccgtgggttttttttaatacatttatt
tttatagcagcaatgttctattttttagaaactatattataagtacagaaa
tggttctccgtgtggtgggaggaggagggttcgggtgctgggtaagtgcc
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aattctgttttaatttttttaataaaaaatcttaaaacacttttttctaa
cctagactgagaaattcatgtttacttttctagggtgtatgatactttgta
aagttgatacttttcctaagaatttaacatgtcataatttttgaaatagatt
taagtgtgcttcttatttgctaaaaataactaaatgtcatgggtcatagtat
ctgatatcaatatcgttgataacatatccacaggtaacaccatgatgtag
gcataaatggaaaacaaaaaccctactatttcaaatatattgtactttt
tatttctgtaagccaactgtgtgccattttc

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Figure 9

abcA9

tgtgccagcaa

ccaaatcccatgtttcctactgtgttaagtttaaaaatgcattttattata
gaattgtctacatttctgaggatgtcatggagaatgcttaatttttctttc
tctgaacttcaaaaatattaaatattttcttatttttttgattaaagtata
aattaagacaccctattgacttccgggtaaggggagtcatttgattaccc
agcagcacagtatttgcttttttataattcccttttttaaatacttgttctt
aattgactggttttccttttctgtcatttttccagagtttagattgtgagt
ccatgttttgtctgttgtgcctataaaaggaaatttgaaatctgtatcatt
ctactataaagacacatgcacacgtatgtttattgcagcactgtttacaa
tagcaaagacttggaaccaaccaaatacccacaaatgatagaccggata
aagaaaacgtgacacatatatacccatggaatactatgcagccatagaaaa
ggatgagttcatattcttcacagggacatggatgaagctggaaaccatca
tcctcagcaaactaacacaggaacagaaaaccaaacaccgcatgttctca
ctcataagtggggaattgaacaatgagaatacatggacacagggaggggaa
caccacaccctggggcctgttgggggggatgggggctaggggagggatagc
attaggagaaa

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Figure 10

abcA10

aggagctgggaaatggtgatgataaaattgatacaacagttga
atggaaacttctccacaggaagacccttaaaatgaagaacctcctaaca
ttcaatthtttaggtcctactacattggttagtttccataattctacaagaat
gtttccttttacttcagtttaacaaaagaaaacatttaataaacattcaat
aatgattacagttttcatttttaaaaatttaggatgaaggaaacaaggaa
atatagggaaaagtagtagacaaaattaacaaaatcagacatgttattca
tccccaacatgggtctatthttgtgcttaaaaataatttaaaaatcataca
atattaggttggthtttcggttattatcaataaagctaacactgagaacat
tttacaataaaaatatgagthtttttagcctgaacttcaaattgtatcagc
tattthtaaacattatttactcggattctaatttaattgtgacattgacta
taagaaggthctgataaaactgatgaaatggc

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Figure 11

abcA12

cctgctggagagtgt
tttgggcttcttggagtgaatggagcaggaaagaccactatatattcaagat
gctgacaggagacatcattccttcaagtggaaacattctgatcagaaata
agaccggatctctgggtcacgttgattctcacagctcattagttggctac
tgtcctcaggaagatgccttagatgacctggtaactgtggaagaacattt
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gtattggatctttgcagcacataaagagcaggttggacgaggatttact
gtcaaagttcacttgaagaataacaaagtgaccatggagaccctcacaaa
gttcatgcagctgcactttccaaaaacataactttaaagatcagcacctca
gcatgctagagtatcatgtaccagt**cacagcaggaggagtcg**caaacat

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Figure 12

abcB1

catcctgtttgactgcagcattgctgagaacattgcctat
ggagacaacagccgggtggtgtcacaggaagagattgtgagggcagcaaa
ggaggccaacatacatgccttcacagagtcactgcctaataaatatagca
ctaaagtaggagacaaaggaactcagctctctggtggccagaaacaacgc
attgccatagctcgtgcccttggttagacagcctcatattttgcttttgga
tgaagccacgtcagctctggatacagaaaagtgaaaagggtgtccaagaag
ccctggacaaagccagagaaggccgcacctgcattgtgattgctcaccgc
ctgtccaccatccagaatgcagacttaatagtggtgtttcagaatggcag
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aacatttcctcagtcagttcagagtccttcagagacttcgtaattaaagg
aacagagtgagagacatcatcaagtggagagaaatcatagtttaaaactgc
attataaattttataacagaattaaagtagatttttaaagataaaatgtg
taattttgtttatatTTTTcccat**ttggactgtaactgactgccttgctaa**

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Figure 13

abcB2

atat

tgcctatggcctgacccagaagccaactatggaggaaatcacagctgctg
cagtaaagtctggggcccatagtttcatctctggactccctcagggctat
gacacagaggtagacgagggctgggagccagctgtcagggggtcagcgaca
ggcagtggcggtggcccgagcattgatccggaaaccgtgtgtacttatcc
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cagctcctgtacgaaagccctgagcgggtactcccgctcagtgttctcat
caccagcacctcagcctgggtggagcaggctgaccacatcctctttctgg
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aaggggtgctactggggccatgggtgcaggctcctgcagatgctccagaatg
aaagccttctcagacctgcgcactccatctccctcccttttcttctctct
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cttgaaatttgcttgagtgtgttacctcctttccaagctcctcgtgata
atgcagacttcctggagtacaaacacaggatttgtaattcctactgtaac
ggagtttagagccagggctgatgctttgggtgtggccagcactctgaaact
gagaa

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Figure 14

abcB3

gggagtaggagctatgctaagtgtttttca
tgta ttatcg tttttta atcattatcccc aaccctatgagggttggttatta
tccccat ttttacagatgaggaaactgaagctcaaagagggtcaatgactt
tcccaagggtggtcgtagtggtggagttggagtttgaacacaggcctgacc
ctagagttccacaccctgacccaatcaattatattgcatcttgggtccata
aacccta atccataatcccatcaagaaaagctctgctgctcttagctcta
aataa ttcagaatctattctcttctctccagtcctcggttggtatagtcttc
actcatagacttaagatgatcccatcaccagagagggttctctaccatta
gcttccctcttccggccattcttcacaaagtcatttttctaaattctgtg
tcacatacgatgatggcatttctggaaattccttcagggtgctctcaagcc
ctgctgacagagatccttttcagagcacacactgttcagcccatctgtct
caccctctcctgttgatccagctccacgacaaactttctgccttcccca
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tcactgtgcggttacctctttcacagcccttttaagttctatcttccct
ttcccacctttttt**tgaccttccactagaccatgagca**

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Figure 15

abcB4

ttgacagctacagtgaagaggggctgaagcctgataaat
t tgaaggaaatataacattttaatgaagtcgtgttcaactatcccacccga
gcaaacgtgccagtgcttcaggggctgagcctggaggtgaagaaaggcca
gacactagccctgggtgggcagcagtggtgtggaagagcacggtgggtcc
agctcctggagcggttctacgaccccttggcggggacagtgcttctcgat
ggtcaagaagcaaagaaactcaatgtccagtggtcagagctcaactcgg
aatcgtgtctcaggagcctatcctatttgactgcagcattgcccagagaata
ttgcctatggagacaacagccgggttgatcacaggatgaaattgtgagt
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aacagaggattgctattgcccagccctcatcagacaacctcaaatcctc
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ccaagaagccctggacaaagccagagaaggccgcacctgcattgtgattg
ctcaccgcctgtccaccatccagaatgcagacttaatagtgggtgtttcag
aatgggagagtcaggagcatggcacgcacatcagcagctgctggcacagaa
aggcatctatTTTTTcaatgggtcagtg**ccaggctgggacacagaacttat**
g

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Figure 16

abcB6

ttcg
cttctacgacatcagctcttggtgcatccgaatagatgggcaggacattt
cacaggtgacccaggcctctctccggtctcacattggagttgtgccccaa
gacactgtcctctttaatgacaccatcgccgacaatatccgttacggccg
tgtcacagctgggaatgatgaggtggaggctgctgctcaggctgcaggca
tccatgatgccattatggctttccctgaagggtacaggacacaggtgggc
gagcggggactgaagctgagcggcggggagaagcagcgcgtcgccattgc
ccgcaccatcctcaaggctccgggcatcattctgctggatgaggcaacgt
cagcgcctggatacatc taatgagagggccatccaggcttctctggccaaa
gtctgtgccaaccgcaCcaccatcgtagtggcacacaggctctcaactgt
ggtcaatgctgaccagatcctcgtcatcaaggatggctgcatcgtggaga
ggggacgacacgaggctctgttgtcccgagggtggggtgtatgctgacatg
tggcagctgcagcagggaacaggaagaaacctctgaagacactaagcctca
gaccatggaacgggtgaCaaaagtttggccacttccctctcaaagactaac
ccagaaggggaataagatgtgtctcctttccctggcttatttcatcctggt
c

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Figure 17

abcB7

ccctgcaggaaagaaagtggccattgttaggaggtagtgggtcaggga
aagcacaatagtgaaggctattatcttgccttctatgagcctcaaaagggt
gcatttatcttgctggtcaaaatatacaagatgtgagcctggaaagcctt
cggagggcagtggtgagtggtacctcaggatgctgtcctctccataatac
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cagtcatactctacgatgaagctacttcatcgttagattcgattactgaa
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tcttggatcagggtaaggtagccgaacgtggtacccaccatggtttgctt
gtaaccctcatagtatctattcagaaatgtggcatacacagagcagccg
tgtgcagaaccatgataaccccaaatgggaagcaaagaaagaaaatatat
ccaaagaggaggaaagaaagaaactacaagaagaaattgtcaatagtgtg
aaaggctgtggaaactgttcgtgctaag

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Figure 18

abcB8

aggttgtcggtttcatcagccaggagcccgtcctgtttgg
gacgaccatcatggaaaacatccgcttttgggaagctggaagcttccgatg
aagaggtgtacacagccgcccgggaagcgaatgctcacgagttcatcacc
agtttccccgagggctacaacacggtcgtcgggtgaacggggcactaccct
gtctggggggccagaagcagcgcctggccatcgcccagcccttatcaagc
agcccacggtgctgatactggatgaagctaccagcgcgctggatgcagag
tccgagcgggttgtacaggaggccctggaccggggccagtgcaggccgcac
ggtgctggtaattgccaccgggtcagcactgtccgtggggccactgca
ttgtcgtcatggccgattggcgtgtctgggaggctgggacacatgaagag
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ggatgccccgaggacagcggccccaccgccccaaaaagccagaaggcccca
ggagccaccagcacaagtccctgagaagggccccctgaggtgtggtcgtg
ccaagcatcagtgttagggctggggctcagcctgggggagcctactgggg
actgagccccaggaggggccagcatgtggagagtcgct**gcggtgctcct**
gctcacaataaa

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Figure 19

abcB9

atcacggttctctgcatcttgccccctgggtccctgccccattcccagggca
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tcctaagcaaaggtagagctgcctttttaaacctaggtcttaccaggggtt
tttactgtttgggttgaggcaccccaagtcaactcctagatttcaaaaacc
tttttctaattgggagtaatggcggggcactttcaccaagatgttctagaa
acttctgagccaggagtgaatggccccttccttagtagcctgggggatgtc
cagagactaggcctctccccctttaccctccagagaaggggcttccctgt
cccgaggggacacggggaacgggattttccgtctctccctcttgccagct
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ccagcccggcaccagcgctttcgccctctgctccaccacccctggctgg
cagctccctccccacaccgcccctgtgctctgctgtctggaggccacg
tggatgttcatgagatgcattctcttctgtcttttggtggatgggatgggtg
gca

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Figure 20

abcB10

gcaaggcatgaactgctaggtattattaagaatgaatg
atTTTTgcattttaagttgtttgaaggcatgtatTTTTgaaaaatatctgtt
acaaatttataatttcaagacaaattgaatcttattttataataacttttg
gaatttcatttaataaggctaaaaatttgaggaatataactaattttcagcc
ttaagacatttaagtttggaagtccttgctattcaacagaataacaagaa
aacttcagaatgtatcactctcctgaaaagaagatattaataagcccttt
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tacaaccattgaatttgccataattttgtatcagtgctgttaatttgctgt
tgcctcaagaaaaagtgcctttttctccatggatgaggctagaccctaaga
agtaattaagtcaatgtaaatcaaaggaagttttcccatgaactaagaa
tttattagttcc**ctgattagactggaagaagaacc**actatttcatgaaa

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Figure 21

abcB1.1

ttg
tcattgcccatogettggtccaccatccagaacgcggatatcattgctgtc
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gacccaatgcaagaatctcagacacacatgacgcacagttacaggggtt
gtttttaagaaaaaaacaatcccagcaggagggat tgctgggattgttt
tttctttaagaagaatgttaatatctttacttttacagtcattttcctac
atcggaatccaagctaatttctaattggccttccataataattctgcttta
gatgtgtatacagaaaatgaaagaaactaggggtcca tatgagggaacc
caatgtcaagtggcagctcagccaccactcagtgtt tctctgtgcaggag
ccagtcctgattaatatgtgggaattagtgagacatcaggagtaagtga
cactttgaactcctcaagggcagagaactgtcttttcatttttgaaccctc
ggtgtacacagaggcgggtctataacaggcaatcaacaaacgtttcttga
gctagaccaaggtcagatttgaaaagaacagaaggactgaagaccagctg
tgtttcttaactaaatttgtctttcaagtgaaccagcttccttcattctc
taaggctaaggatagggaaaggggtggatgctctcagcgtgaggaggcag

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Figure 22

abcC1

gctcccatcacctctaacatccttgtctgggtctaccaggaacgcttcat
ttccttggggctgcagttttgtggttgaggggcctggagaaaatcatttt
ctccccttggcagtgctccagggccctggatggtcctcttaccaacatct
ggtcttccaggcactcaaaagctgggaaccagcatctcagcgccagctct
accagttctcgttttgggccagaggcagcctctgcactcccacgcctgtc
ctcctggaagggaacctggttggactaacggctaacctggacctggaactg
tagggccaggggattgtctcagggccgacgttccacctggggcttccctc
cccacccaccccgactccaggctttcccttttttcttttgttcaacattg
taagaacaatcaatgctgttattactgatcccaccatgattgatgtggg
taaataattaaggagatggcctcatgggaatttgaccttgactagaaatag
agactgagagtgagcaaccagctggaaggtactatgccagtcctagcaga
aaaatgtgttaggggcctggcccaaagcagtggttggttgcttacagtgtt
gattgattttgttcttttttcttaccacctcttttctttccctctcatgg
tacctgctca

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Figure 23

abcC2

gtagcatggagaagattggtgtggtgggcaggacaggagctggaaagtca
tccctcacaaactgcctcttcagaatcttagaggctgccggtggtcagat
tatcattgatggagtagatattgcttccattgggctccacgacctccgag
agaagctgaccatcatccccaggaccccatcctgttctctggaagcctg
aggatgaatctcgacctttcaacaactactcagatgaggagatttgga
ggccttggagctgggtcacctcaagtcttttgtggccagcctgcaacttg
ggttatcccacgaagtgacagaggctgggtggcaacctgagcataggccag
aggcagctgctgtgcctgggcagggtctgtcttcggaaatccaagatcct
ggtcctggatgaggccactgctgcggtggatctagagacagacaacctca
ttcagacgaccatccaaaacgagttcgccactgcacagtgatcaccatc
gcccacaggctgcacaccatcatggacagtgacaaggtaatggctcctaga
caacgggaagattatagagtgcggcagccctgaagaactgctacaaatcc
ctggacccttttactttatggctaaggaagctggcattgagaatgtgaac
agcacaaaattctagcagaaggcccatgggttagaaaaggactataaga
ataatttcttattttaattttatttttataaaaatacagaatacatacaaa
agtgtgtataaaatgtacgttttaaaaaaggataagt**gaacacccatgaa**
cctactaccc

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Figure 24

abcC3

caagagccgcattcct
ggtttttagacgagggccacagctgccatcgacctggagactgacaacctca
tccaggctaccatccgcacccagtttgatacctgcactgtcctgaccatc
gcacaccgggcttaacactatcatggactacaccagggtcctggctcctgga
caaaggagtagtagctgaatttgattctccagccaacctcattgcagcta
gaggcatcttctacgggatggccagagatgctggacttgccataaaatata
ttcctgagatttcctcctggcctttcctgggttttcatcaggaaggaaatg
acaccaaatatgtccgcagaatggacttgatagcaaactgggggacacc
ttaagattttgcacctgtaaagtgccttacagggttaactgtgctgaatgc
tttagatgaggaaatgatccccaagtgggtgaatgacacgcctaagggtcac
agctagtttgagccagtttagactagtcccccggtctcccgattcccaact
gagtgttattttgcacactgcactgttttcaaataacgattttatgaaatg
acctctgtcctccctctgatttttcatattttcctaaagtttcgtttctg
ttttttaataaaaagctttttcctcctggaacagaagacagctgctgggt
cagggccacccctaggaactcagtcctgtactctgggggtgctgcctgaatc
cattaaa

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Figure 25

abcC4

ctggaaaaagttccctcatctcagcccttttttagattgtcagaacccgaa
tggaagaaccggag
ggtaaaatttggattgataagatcttgacaactgaaattggacttcacga
tttaaggaagaaaatgtcaatcatacctcaggaacctgttttgttcactg
gaacaatgaggaaaaacctggatccctttaaggagcacacggatgaggaa
ctgtggaatgccttacaagaggtacaacttaaagaaaccattgaagatct
tcctggtaaaatggatactgaattagcagaatcaggatccaa ttttagtg
ttggacaaagacaactgggtgtgccttgccagggcaattctcaggaanaat
cagatattgattattgatgaagcgacggcaaatgtggatccaagaactga
tgagttaatacaaaaaaaaaatccgggagaaatttgcccactgcaccgtgc
taaccattgcacacagattgaacaccattattgacagcgacaagataatg
gttttagattcaggaagactgaaagaatatgatgagccgtatgttttgct
gcaaaataaagagagcctattttacaagatggtgcaacaactgggcaagg
cagaagccgctgccctcactgaaacagcaaacagggtatacttcaaaaga
aattatccacatatgtgtcacactgaccacatgggttacaacacttccaa
tggaagccctcgaccttaactattttcgagacagcactgtgaatccaac
caaaatgtcaagtccttccgaaggcatt

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Figure 26

abcC5

aaggaag
acgtgtggcaatagtgggccctccgacagccccctctgccgcctccccac
agccgctccaggggtggctggagacgggtgggcggctggagaccatgcag
agcgccgtgagttctcagggctcctgccttctgtcctggtgtcacttact
gtttctgtcaggagagcagcggggcgaagcccaggcccccttttactccc
tccatcaagaatggggatcacagagacattcctccgagccggggagtttc
tttctgccttcttcttttttgcgtgttgtttctaaacaagaatcagtctat
ccacagagagttccactgcctcagggttctatggctggccactgcacaga
gctctccagctccaagacctgttgggtccaagccctggagccaactgctg
ctttttgaggtggcactttttcatttgcctattccacacctccacagtt
cagtggcagggctcaggatttctgtgggtctgttttccctttctcaccgcag
tcgtcgcacagtctctctctctctctccctcaaagtctgcaactttaag
cagctcttgctaatacagtgtctcacactggcgtagaagtttttgtagtctg
aaagagacctacctcaggttgctgggttgctgtgtggttt

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Figure 27

abcc6

tcgtgtcagtgaggcgggatgcaggactatgcctggacgc
ccaaggaggctccctggaggctgcccacatgtgcagctcagccccctgg
cctcagggcgggcagatcgagttccgggactttgggctaagataccgacc
tgagctcccgctggctgtgcaggcggtgtccttcaagatccacgcaggag
agaagggtgggcatcgttggcaggaccggggcagggaagtcctccctggcc
agtgggctgctgcggctccaggaggcagctgagggtgggatctggatcga
cgggggtccccattgcccacgtggggctgcacacactgcgctccaggatca
gcatcatccccaggaccccatcctgttccctggctctctgcggatgaac
ctcgacctgctgcaggagcactcggacgaggctatctgggcagccctgga
gacggtgcagctcaaagccttggtggccagcctgcccggccagctgcagt
acaagtgtgctgaccgaggcgaggacctgagcgtgggcccagaaacagctc
ctgtgtctggcacgtgcccttctccggaagaccagatcctcatcctgga
cgaggctactgctgccgtggaccctggcacggagctgcagatgcaggcca
tgctcgggagctggtttgcacagtgcactgtgctgctcattgcccaccgc
ctgcgctccgtgatggactgtgcccggttctgggt**catggacaaggggca**
ggtggcag

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Figure 28

abcC7

tcttttcacagggg
acaggatgggttcccttgatgaagaagttgatatgccttttcccaactcca
gaaagtgacaagctcacagaccttgaactagagtttagctggaaaagta
tgtagtgcaaattgtcacaggacagcccttctttccacagaagctccag
gtagaggggtgtgtaagtagataggccatgggcactgtgggtagacacaca
tgaagtccaagcatttagatgtataggttgatgggtggtatgttttcaggc
tagatgtatgtacttcatgtctgtctacactaagagagaatgagagacaca
ctgaagaagcaccaatcatgaattagttttatatgcttctgttttataat
tttgtgaagcaaaattttttctctagggaaatattttattttaataatgttt
caaacatatattacaatgctgtatttttaaagaatgattatgaattacat
ttgtataaaaataatttttatatttgaaatattgactttttatggcactag
tatttttatgaaatattatgtttaaactgggacaggggagaaacctagggt
gatattaaccagggggccatgaatcaccttttggtctggaggggaagccttg
gggctgatacgagttggtgcccacagctgtatgattcccagccagacacag
cctcttagatgcagttctgaagaagatggtagccaccagtcctgactgtttc
catcaagggtac**actgccttctcaactccaaactg**

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Figure 29

abcC8

aaaccgagggcagagagctacgaggggctcctggcaccat
cgctgatcccaaagaactggccagaccaaggggaagatccagatccagaac
ctgagcggtgcgctacgacagctccctgaagccggtgctgaagcacgtcaa
tgccctcatctccccctggacagaagatcgggatctgcggccgcaccggca
gtgggaagtccctccttctctcttgccttcttccgcatggtggacacgttc
gaagggcacatcatcattgatggcattgacatccgcaaactgccgctgca
caccctgccgtcacgcctctccatcatcctgcaggaccccgctcctcttca
gcggcaccatccgatttaacctggaccctgagaggaagtgctcagatagc
acactgtgggagggccc tggaaatcgcccagctgaagctgggtggtgaaggc
actgccaggaggcctcgatgccatcatcacagaaggcggggagaatttca
gccagggacagaggcagctgttctgcctggcccgggccttcgtgaggaag
accagcatcttcatcatggacgaggccacggcttccattgacatggccac
ggaaaacatcctccaaaagggtggtgatgacagccttcgcagaccgcactg
tggtcaccatcgcgcatcgagtgcacaccatcctgagtgcagacctggtg
atcgtcctgaagcgggggtgccatccttgagttcgataagccagagaagct
gctcagccggaaggacagcgtcttcgcctccttcgtccgtgcagacaagt
gacctgccagagccca

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Figure 30

abcC9

tgggtgcagtgagaagggtgaacagtttcctgactatggagtca
gagaactatgaagggcacaatggatccttctcaagttccagaacattggcc
acaagaaggggagatcaagatacatgatctgtgtgtcagatatgaaaata
atctgaaacctgttcttaagcacgtcaaggcttacatcaaacctggacaa
aaggtgggcataatgtggtcgactggcagtgaggaaatcatcgttatctct
ggctttcttcagaatgggtgatataatttgatggaaaaattgtcattgatg
ggatagacatttccaaattaccactgcacacactacgttctagactttca
atcattctgcaggatccaatactattcagtggttccattagatttaattt
agatccagagtgc aaatgcacagatgacagactctgggaagccttagaaa
ttgctcagctgaagaatatggtcaaattctctacctggagggtctagatgcg
gttgtcactgaaggtggggagaatttttagcgtgggacagagacagctatt
ttgccttgccagggcctttgtccgcaaaagcagcattcttattatggatg
aggcaacagcttccattgacatggccacagagaatattttgcaaaaagta
gtaatgacagcctttgcagaccggaccgtggtgacaatggctcaccgtgt
ctcttctattatggatgcaggccttgttttagtctttcttgagggtattt
tagtggagtgatgactgtcccaattttgttcgcccac

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Figure 31

abcC10b

tgttggttggtgctcttccggctgctagagcccagttcagggcgagtgctg
ctggacggcggtggacaccagccagctggagctggcccagctcagatccca
gttggctatcatccccaggagccctttttgttcagtgaggactgttcggg
aaaacctggacccccagggcctacataaggacagggccttgtggcaggcc
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gaccatctgcaaacgctttgccaacaagacagtgttgaccattgcccata
ggctcaacacgatcctgaactcagaccgggtgctggtgctacaagcgggg
agagtggtagagctggactccccggccaccctgcgcaaccagccccactc
cctgttccagcagctgctgcagagcagccagcagggagtccctgcctcac
tcggagggtccctgagcccaatcccacaccctgcagagtctctccctctct
ctgatccaggccgggctatacagaggtgctggctgcttggtttacattct
cctctggggctctacctctccacacttccccagaagggaagggaacccc
tggtactctttggaaatcactccttggtgggcagcatcctgaggcttc
cccagaaccaggcctctgctctggccctcttgcatctggaacgccagggtg
ggtttttctggcataggagcccacttgcattttca

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Figure 32

abcC11

gattctcattgacggcggtggacatttgcagcatcggcct
ggaggacttgcggtccaagctctcagtgatccctcaagatccagtgctgc
tctcaggaaccatcagattcaacctagatccctttgaccgtcacactgac
cagcagatctgggatgccttggagaggacattcctgaccaaggccatctc
aaagttccccaaaaagctgcatacagatgtgggtggaaaacgggtggaaact
tctctgtgggggagaggcagctgctctgcattgccagggtgtgcttcgc
aactccaagatcatccttatcgatgaagccacagcctccattgacatgga
gacagacaccctgatccagcgcacaatccgtgaagccttccagggtgca
ccgtgctcgtcattgcccaccgtgtcaccactgtgctgaactgtgaccac
atcctgggttatgggcaatgggaaggtggtagaatttgatcggccgggaggt
actgcggaagaagcctgggtcattgttcgcagccctcatggccacagcca
cttcttactgagataaggagatgtggagacttcatggagggtggcagct
gagctcagaggttcacacaggtgcagcttcgaggcccacagtctgcgacc
ttcttgtttggagatgagaacttctcctggaagcaggggtaaatgtaggg
ggggtggggattgctggatggaaaccctggaataggctacttgatggctc
tcaagaccttagaaccaccagaacca

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Figure 33

abcC12a

ctgggttatggaaaatgggaagggtgattgagtttgacaagcctga
agtccttgcagagaagccagattctgcattttgcgatgttactagcagcag
aagtcagattgtagagggtcctggcggtgattctagaggaggaagagggt
ctgtgagatgaataggaggaggtcttcaggaggaggggctgtcctctccgc
aggcagccctgggtcttcagccctcccatccacggagtgtgctggggctg
aagttgtccccactgccatactcagtcctatgtcacccttgggtgggct
tgggggttggttctgggtggtgaaccggggcagaccagctaattggattaa
aaaactgcccttcacctcccaaatccccaagggttcctcatgtgttttca
ccaaaaccacccctcagtgctgagattgaaaatattgtaactttcagttag
aaatcagccacaataaacaacatgggaaaatgccttaggatggagtttgc
aagggttctcttgcccattatcagaaggaaaaagagcagaattttcttctc
gtttaacccctcacttccatcttgactgggtgacaagtggtaatgaca
cagatttgtagcgtgaaagactgaatacagtggttggccaaaaattttt
taaaaatcatattatatgtttcaattgatctgttagaataaccaagaaaa
caaatgctggagtttctctataaatgacacttttatatcttctttattc
gtcgttaaaacgcggtaggaaa**ttaccctgaaatgtcgccttgcaa**

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Figure 34

abcC13

[illegible]

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Figure 35

abcD1

ttccctcctcgtcagttcttcaaagaccccatggtccatcccctga
gggtggtcagccaaggctcccggtccgtgggatgccataaaagccgcca
gtgggacccacagtcacacagagcgctcacctgcatcctctccccaca
agagccccaagatcccacgggagaggggagagggagcgacagcactgcc
tgccaagcgagaatgcaggccccgccccctcgccccctcaccacctttt
ctacagcctaattttattggattccctattcgtagccatctccgtggccaa
tgtgactaccgtgccagcagcgggggcgggccagcctctgagtcocgtgg
ggccccggctcccaccggtgccaaaccagccccctgcggccgtcaccccg
ccagcctacactgccagccgcccaccggggcacacgggcctctgcttgcca
gccaggagtgcggaacaccatggtcccagctcagtgccaaaga

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Figure 36

abcD2

gtggccaacta
aacctgtacaaaaatagctgacagttttataactaattttcaatataaaaaat
tgttttaatggcatttgttgaaagaaaaaagcatggctaaaaatgtatcaa
atgccataatttttaaatTTTggactttaagcatcttaatgagggcatata
acaaattaatTTTtagtacaatcttaaatatTTTtaataaatcctttcatt
ttaaaaagagaattgccaatacagaaaaggagtatccaaacaatgtctca
acctgataatTTTccttagcagaattacctattgcaacttctgttcagaaa
tacacagcttgTTTTTTTgccaaggatgagtctacattttaagaactgc
aatggtataaaaggaaacttaaggattctgagaatcatagtaataacataca
ttggaatagtactTTTataatttacaatccccatttacatcatttcacctt
aatgTTgaggacaatgTTTTgaaacaaataactatTTTtctactTTtgctt
ttgagaaaattgacactcagacttggcctaatacatgcactttacttaagg
aaagatcgagaaatcaaatagaagttctcctgactctctggttttagtgctc
TTTTgt

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Figure 37

abcD3

tactcattccttgtgtgtgtctt
ggagtgcatttgactccaggaaaagccattttgggttttccttaactaaat
gataaatgtacccctctcagtctgcagtattgagttgtttaaagtatatg
tgcagtcttgcttacaaggaggggttacatgtatcacacctaattcttcc
caatgtttgggatattaaaacacaaaagtccttaacatgccaggctcaagg
tcttataagagttctagatttttaagagaattagacaaatttgtgtgtgt
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atgagccataggaaggcactacatgaaataatgcactgagtatgcaatgc
tatcactgtctttgactgtgattttatgtttaaaaagtatgttctaaaat
tattatatatacatgggtgaattatgtttccgaggcactgttttatctct
gtgaatcttgaataacttttttataatttgggttatgatgtcaaacgatcc
taagcgaagatgatttcagttcatcaaatacatcattaatgactttatgta
ttatttgcacaggggagaattgaaactgagtataatcaataagctagatac
gaaatcagtttctcaaactgagcttcagaaaggggcattttgtactcttg
tttttgcataactggttttgtttttttgcagaattaactataacaatcac
tggctaccgaag

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Figure 38

abcD4

ctccatatgcttgaagtgct
gattacctacaaatgatttcagatcatgtttgctaaagagaaatctggaa
gtgtgagatctgtgaagaaatgaaagaaatgactcttggagtcaagagatc
tggaatcttttaatcagttaaattgtgcagcaatagatttttaacttta
actgaccatttaagttttttaataagttttttacaaagaaaagttaaaca
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tctaggggcctttggtctgccctaccttaacccaaatgaaagtaaatccc
tttcccttagccaaaataagggttggtttttctaaaaaaatagtctatat
tagggaacaacaacagcaaattagacaaaaccagaaagcacaagcatg
agggtggagttaotgtgccccaaagtcctcactcagaccagtgccctccag
ttcagttgtctatgtattaccttccttaccttcataatgtttgcccaggct
tct

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Figure 39

abcE1

attccccgcaaaaaaacc
cctaacttttactctgaactttttttgtttttgcattccatgaggttctgt
attcagtcattctctaggtaatgtcattttttgtacacatatatttatata
atcactgattgagatttaggaaaaagcatttctaaagaatatttgcttcc
cttagaactacagactcgaaatctttaagatgggtgcctaagcatctatg
tattttttttaagttccacagatttttctgttgggcaggccaaggattat
aaaccacttccctaaggcaacattaatgcaaaagtccccagatggcaat
acaaagtatcccctggtaccacatatattcatttgtgagtttggatatag
agcacattatctaaaccatttttgtagttccaaaaacccatctaaatttct
tgagttcctgaattttgaacaggattacctggagcctggagccactttaa
gttgtacttctgactaaactggaattatgagtgaggaagagtgtttacta
aataaatgactggggcaagcaaaattgaggaggaaattagaaactgtttg
acaaactttaagagctacttgaaataacagaagtcttgattaatatgcaa
ataatggctagaaagtatggtttaactggaccctattatgccttttaaaa
ataatttcagtaaccataaatacatgttgtaaaaaattcaaatatacag
aatggaataaaaaaatgatctccctttattaccctccca

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Figure 40

abcF1

ttggaggccctgggtgaagtcattgggtcagccggcccgagagtgaag
ctttccttcccagaagtctcccagagacatatattgtgtggcctagaagt
cctctgtggtctcccctcctctgaagactgcctctggcctgcagctgacc
tggcaaccattcaggcacatgaagggtggagtgtgaccttgatgtgaccgg
gatccactctgattgcatccatttctctgaaagacttggttggtctgct
tctcttcatataactgagctggccttatccttggcatccccctaaacaaa
caagaggtgaccaccttattgtgaggttccatccagccaagtttatgtgg
cctattgtctcaggactctcatcactcagaagcctgcctctgatttacc
tacagcttcaggcccagctgccccccagtccttgggtgggtgctgttctt
tctggtggatttaatgctgactcactggtacaaacagctgttgaagctca
gagctggaggtgagcttctgaggcctttgccattatccagccaagattt
ggtgcctgcagcctcttgtcttggttgaggacttggggcaggaaa

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Figure 41

abcF2

tgctaccca
gagatcaaggagaaggaagaaatgaggaagatcattgggcgatacgggtct
cactgggaaacaacaggtgagcccaatccggaacttgtcagacgggcaga
agtgccgagtggtgtctggcctggctggcctggcagaacccccacatgctc
ttcctggatgaaccaccaatcacctggatatcgagaccatcgacgccct
ggcagatgccatcaatgagtttgaggggtggtatgatgctgggtcagccatg
acttcagactcattcagcaggttgccacaggaaatttgggtctgtgagaag
cagacaatcaccaagtggcctggagacatcctggcttacaaggagcacct
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ctggcccagtagctcgggccggaccaccctgacatcccgagaagtccagac
ggctgtgcgtctgctgctgcctggggagctggccaagcacgctgtgtctg
agggcaccaaggctgtcaccaagtaaccagctccaagt

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Figure 42

abcF3

cctaaacgtcagtgcttgtggaactgctggcacgcaagtttcctnngggc
ggcctgaggaggagtaccgtcaccagctgggtcggtatggcatctccgga
gaactggccatgcgtcctcttggcagcctgtctgggggccagaagagccg
agtggcctttgctcagatgactattgcctgccccacttctacattctgg
atgaaccacaaaaccacctggacatggagaccattgaggctctgggccgt
ngctncaacaatttcaggggtggtgtgattctggtgtccacgatgagcg
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tcacccgtgtggaaggaggatttgaccagtaccgcgccctcctccaggga
acagttccgccgcgaaggctttcctctagggccaccaggctgaggactcg
ccccaggacatggactggtctctcagacccctggggccaccatgtaggcca
ccantcccaggcnttggacttcccccaacttggggacagccttattccc
aaatgtctctatccttttgactggagcatcttctgcacaaccttgggagc
ccatccaagggttggtaggactggtctcccggggtgggggnttggggg
gtacctctggggttatagattccccactgccccagctctgactggaccc
caagtggctgctatgtaaa

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Figure 43

abcG1

cgctctagaatcgaggaggcaagcct
gtgcccgaaccgacgacacagagactcttctgatccaacccctagaaccgc
gttgggtttgtgggtgtctcgtgctcagccactctgccagctgggttgg
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ttggtgggttttttttttttttaacatacagaattttaaataccacaac
tggggcagaatttaaagctgcaacacagctggtgatgagaggcttcctca
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caagcagcctctcagctgatggctgcacagtcagatgtctggtggcagag
agtccgagcatggagcgattccattttatgactgttggttttccacatttt
catctttctaagggtgtgtctcttttccaatgagaagtcatttttgcaagc
caaaagtcgatcaatcgattcattttaagaaattataccttttttagtac
ttgctgaagaatgattcagggtaaatcacatactttgttttagagaggcga
gggggtttaacccgagtcaccagctgg

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Figure 44

abcG2

cagtaacttcagcattccacgatatggatttacggctttgcag
cataatgaatTTTTGGGACAAAacttctgcccaggactcaatgcaacagg
aaacaatccttgtaactatgcaacatgtactggcgaagaatatttggtaa
agcagggcatcgatctctcaccctggggcttgtggaagaatcacgtggcc
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Figure 45

abcG4

acaggcacatacatgagaacaggccatctca
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gctgctcattcaaacttctgtccatgtccctccactgttcctatcagcag
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cactcagagcatgtctggctttcctgggtgggtccaggctcattctgcttc
tgatttcccctccccagggtcattttccccctttttcctgtacacatc
cctg

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Figure 46

abcG5

gcccagggtgcaacatctagattc
acaatgaactttctgattttgtattcatttattccagctcttgtcatcct
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Figure 47

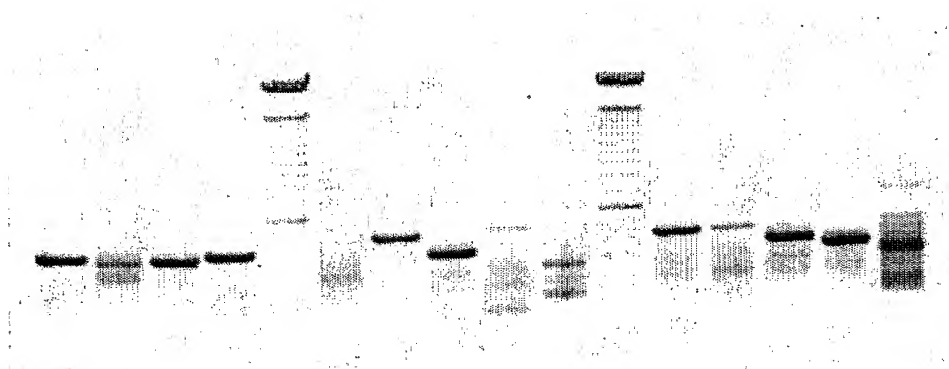
abcG8

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gctttactatgaactggaagacgggctgtacaccactgggtccatatttct
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gataaacttgagcagcctgtggacagtgcccgctggatttccaaagtgt
ccttcctgcggtggtgttttgaagggtgatgaagattcagttcagcaga
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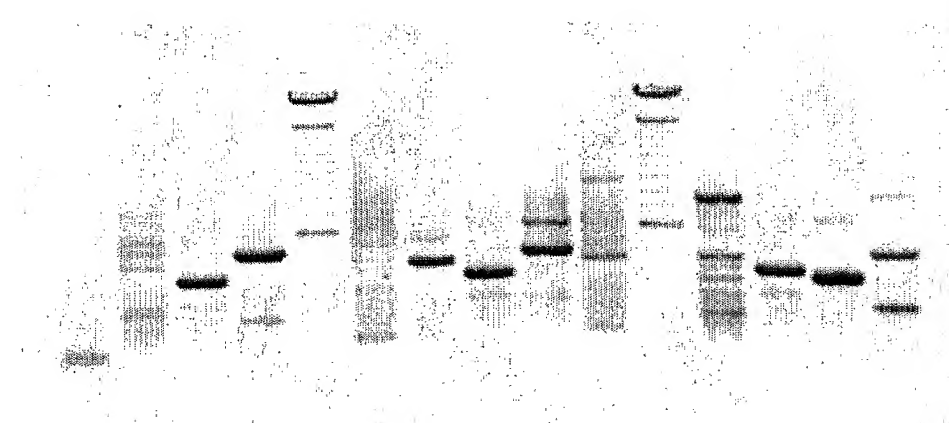
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Figure 48

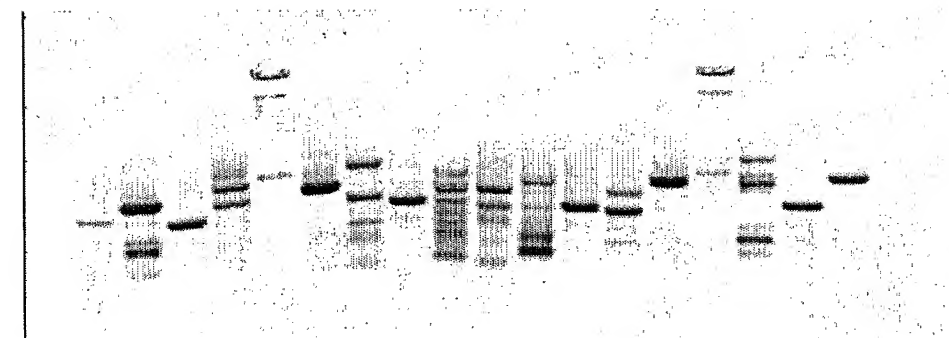
ABC-A



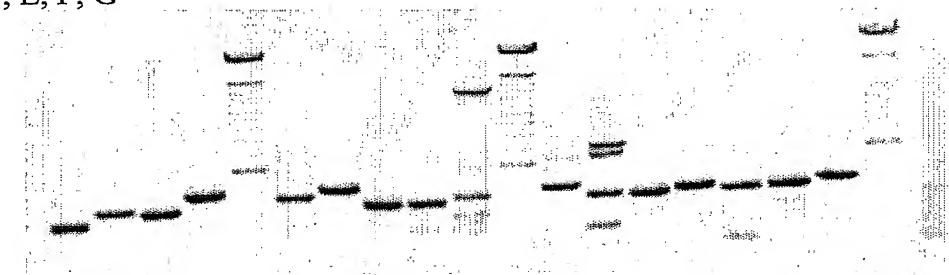
ABC-B



ABC-C



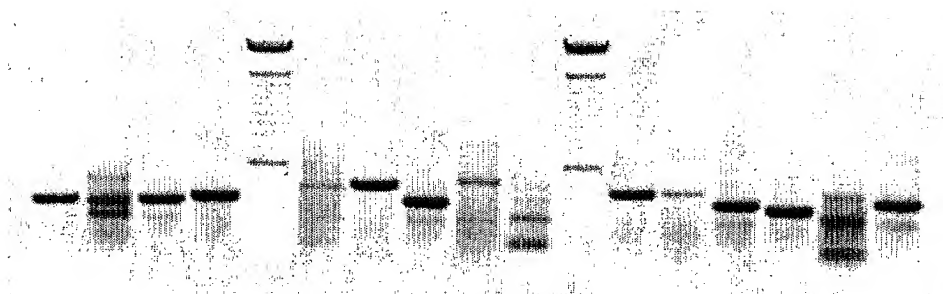
ABC-D, E, F, G



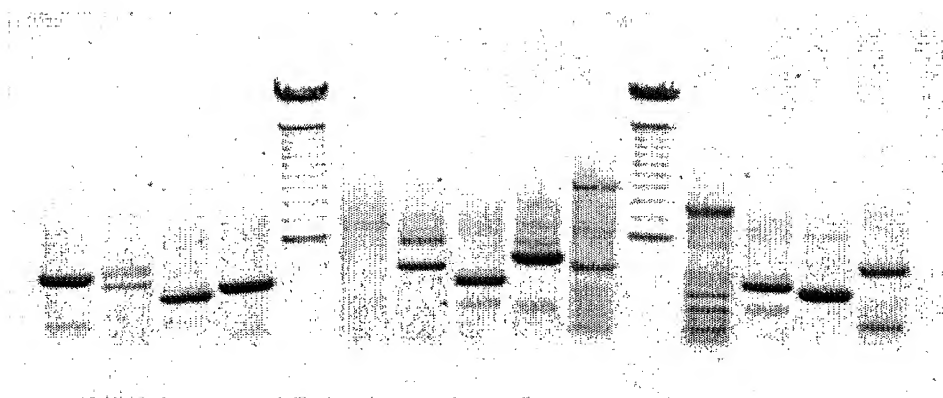
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Figure 49

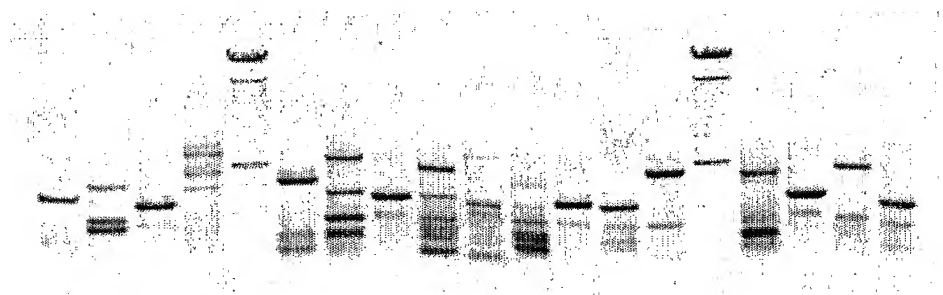
ABC-A



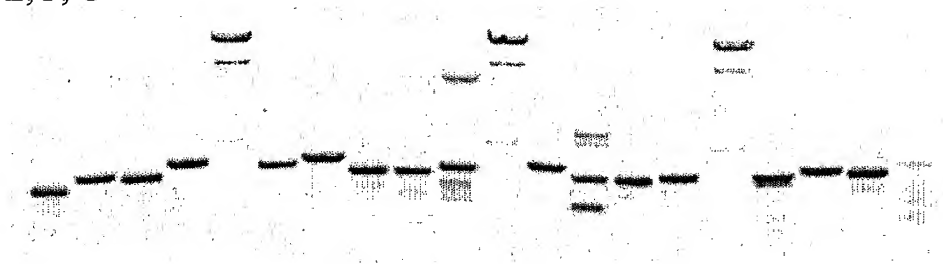
ABC-B



ABC-C



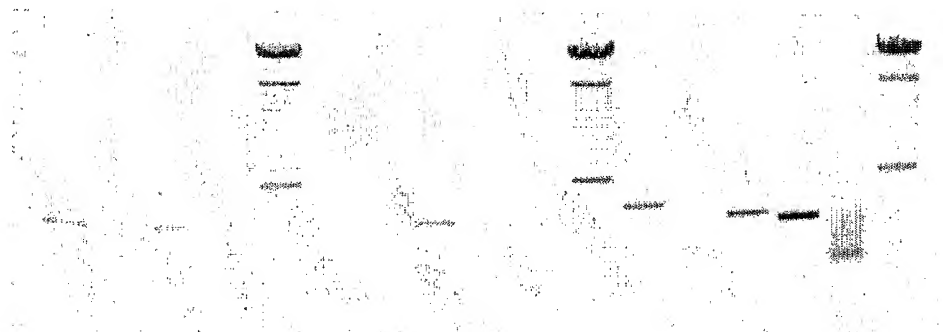
ABC-D, E, F, G



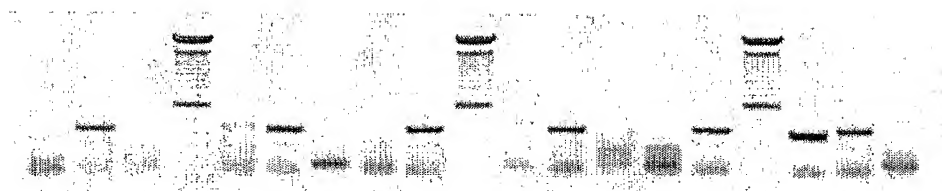
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Figure 50

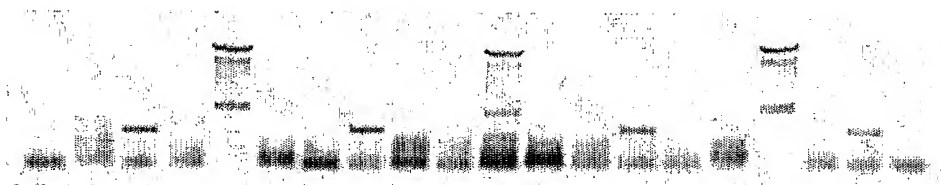
ABC-A



ABC-B



ABC-C



ABC-D, E, F, G

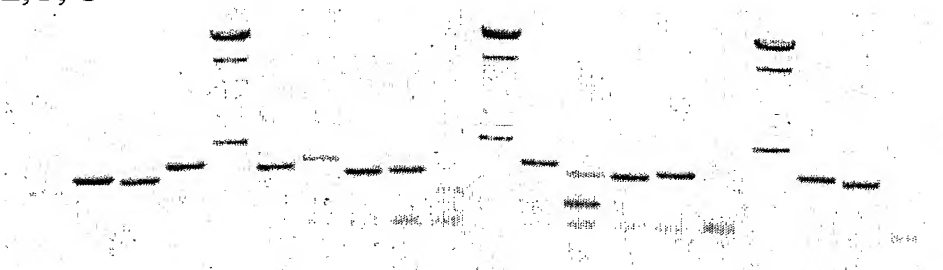


Figure 51

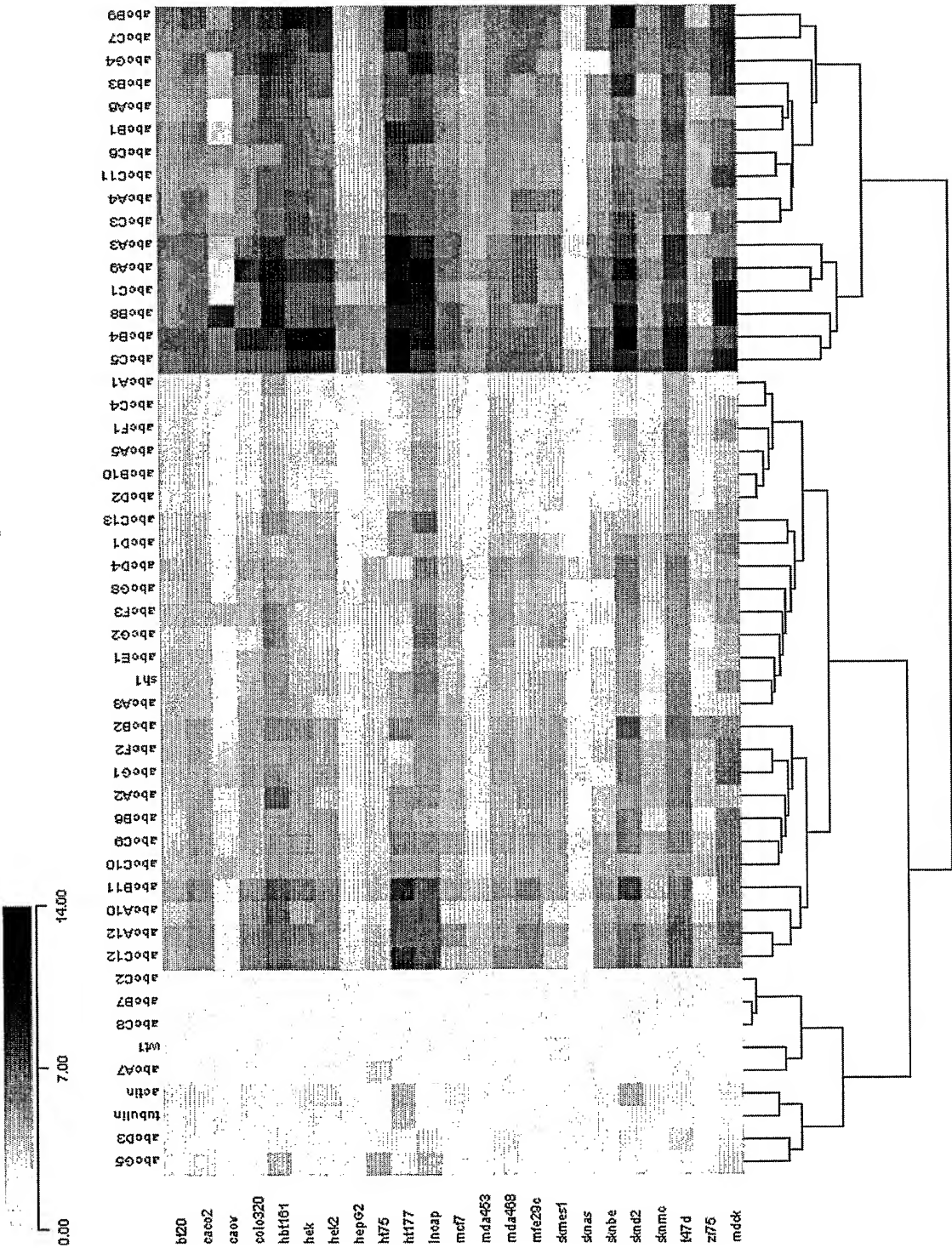


Figure 52

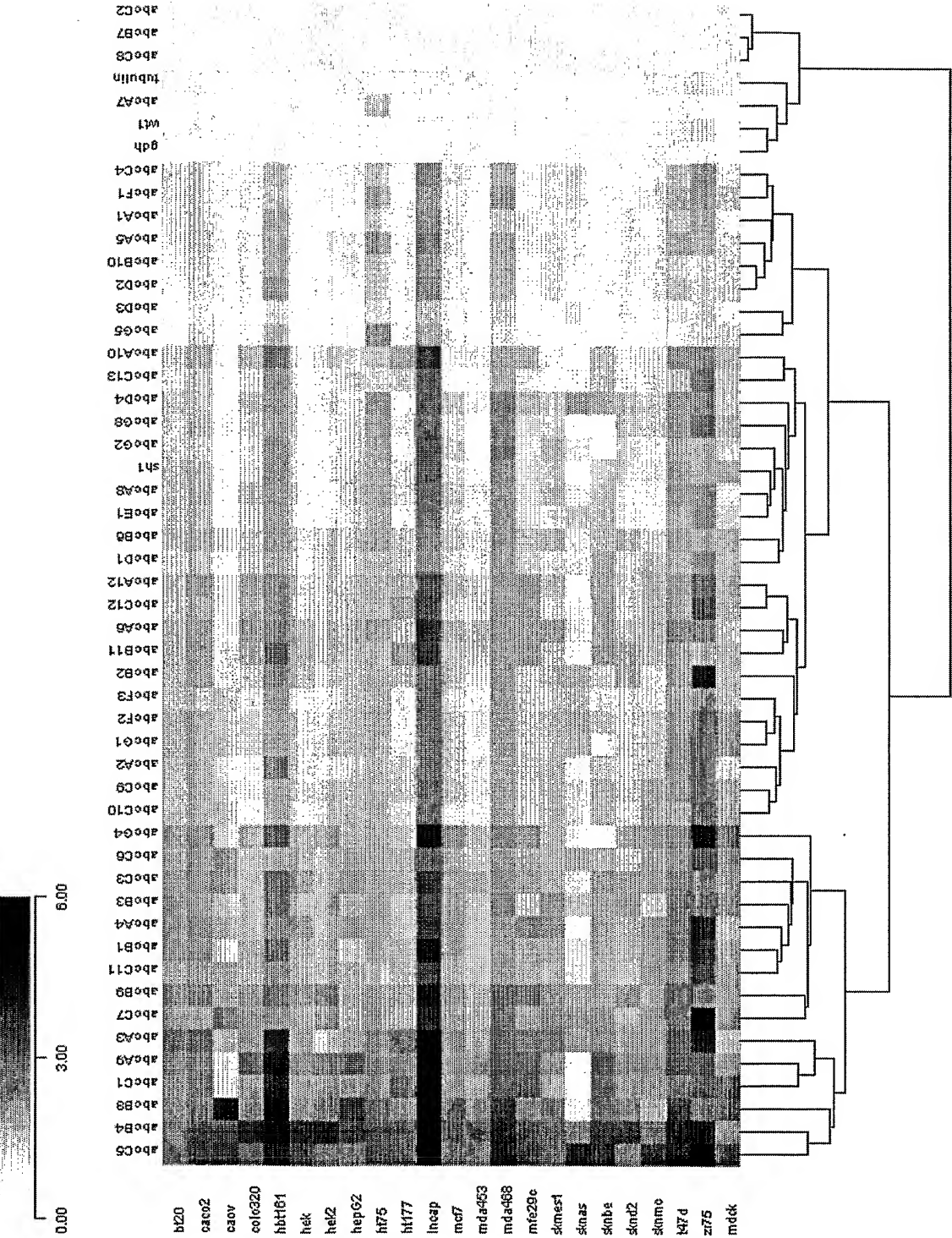
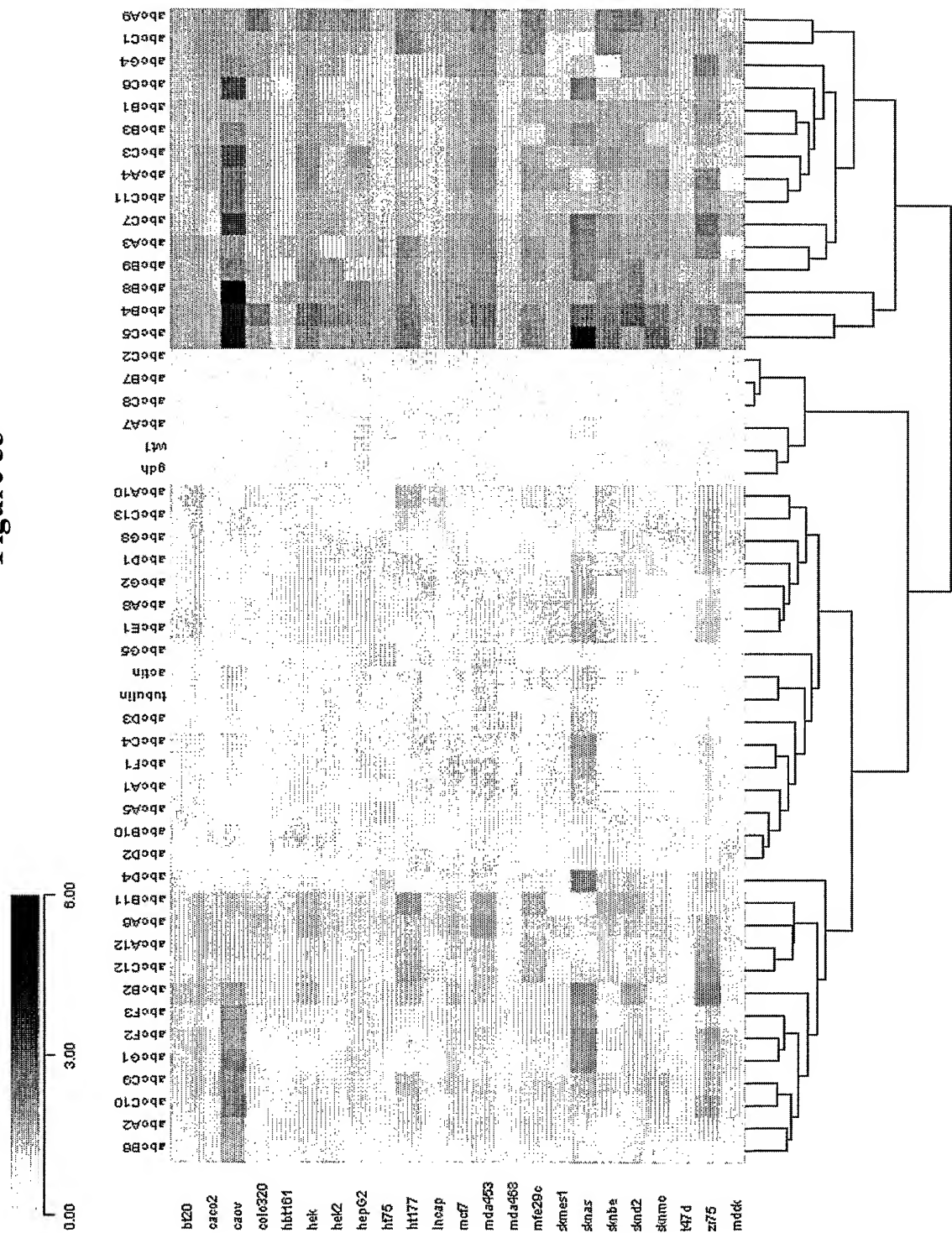
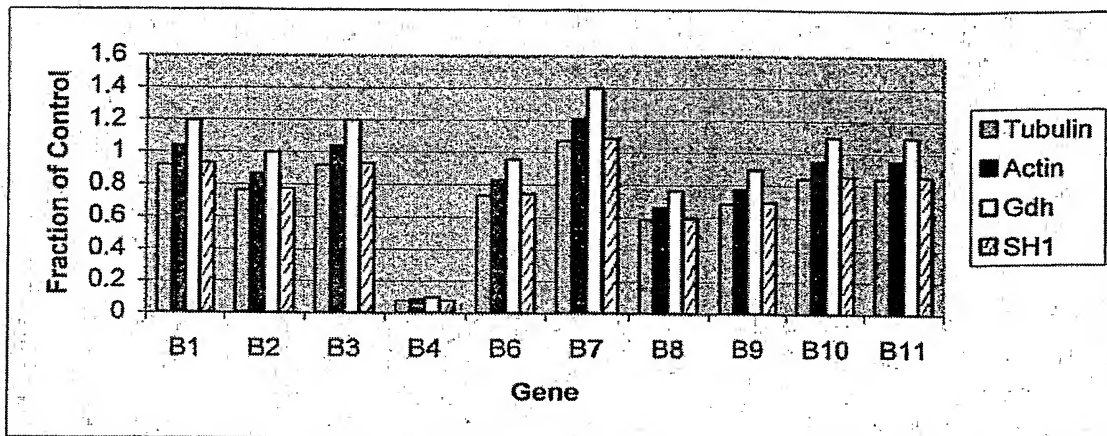


Figure 53



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Figure 54



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Figure 55

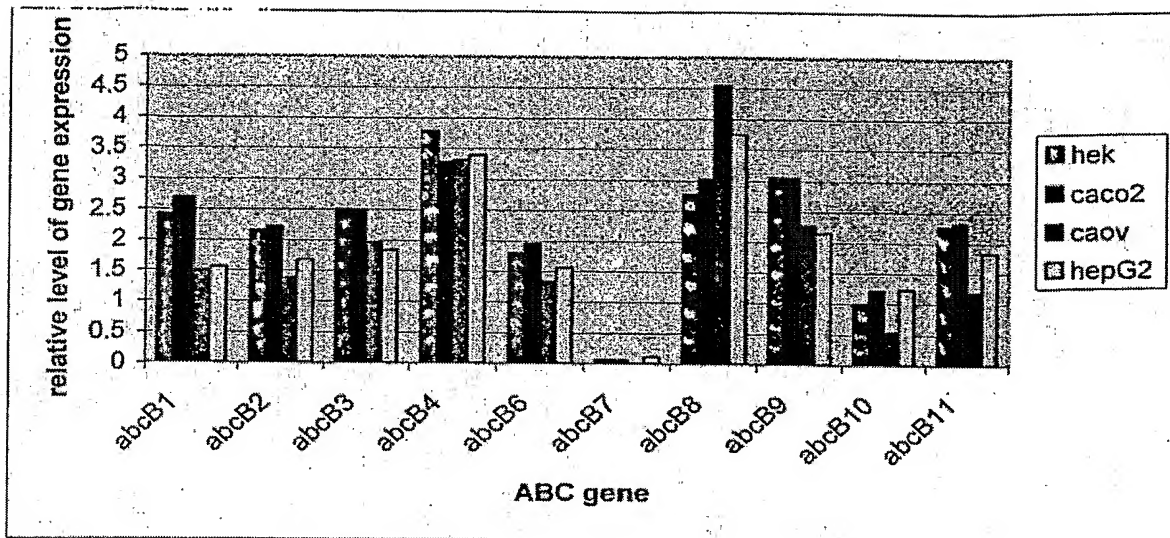
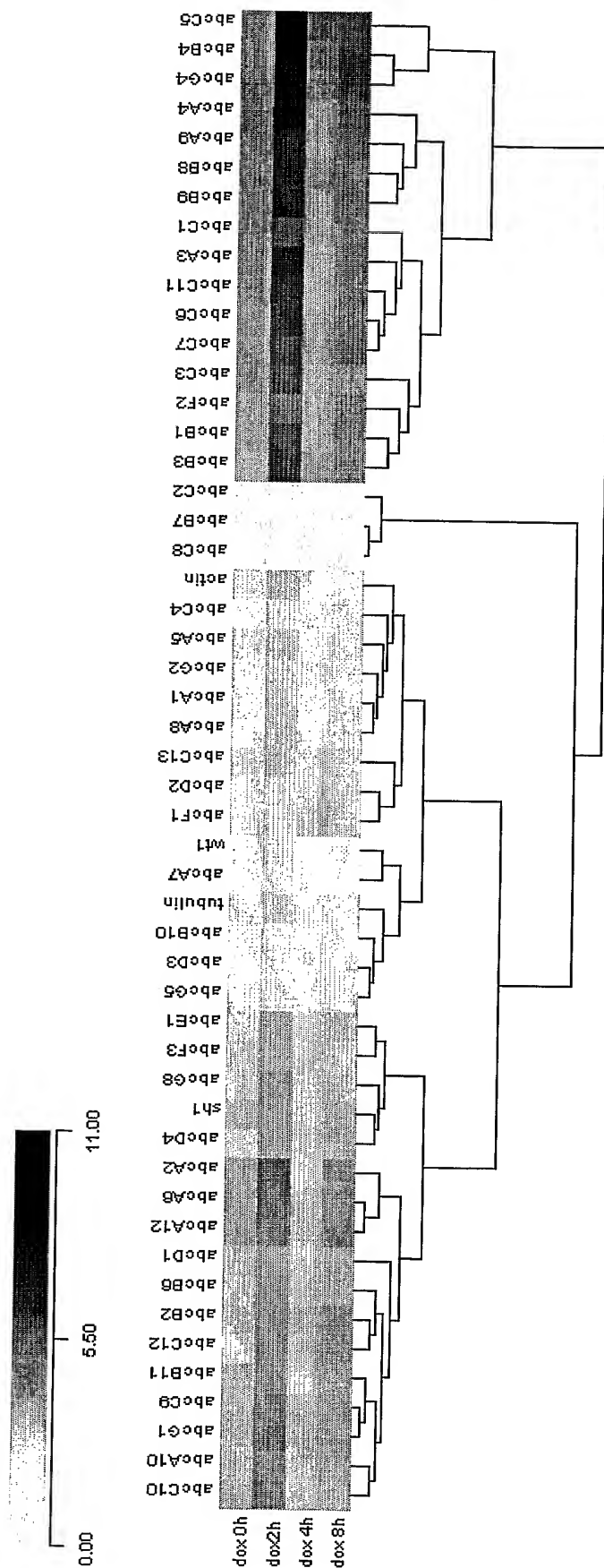
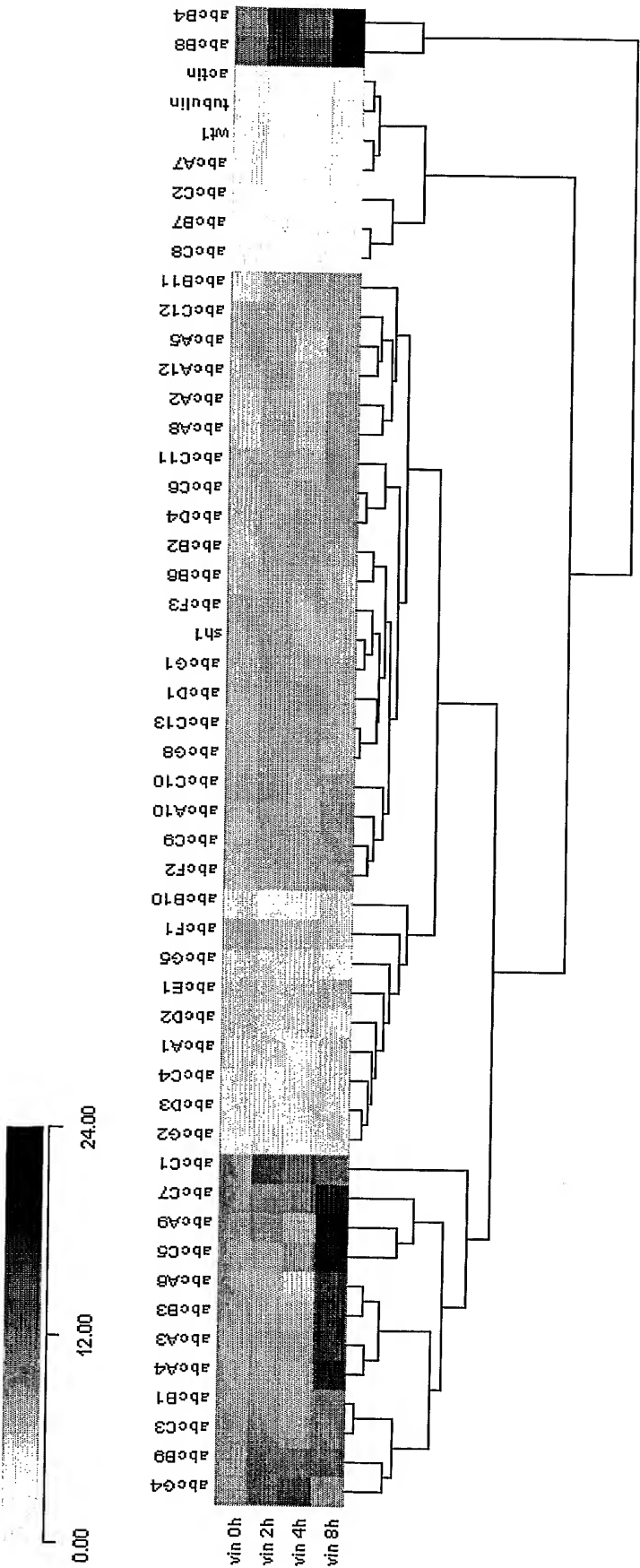


Figure 56



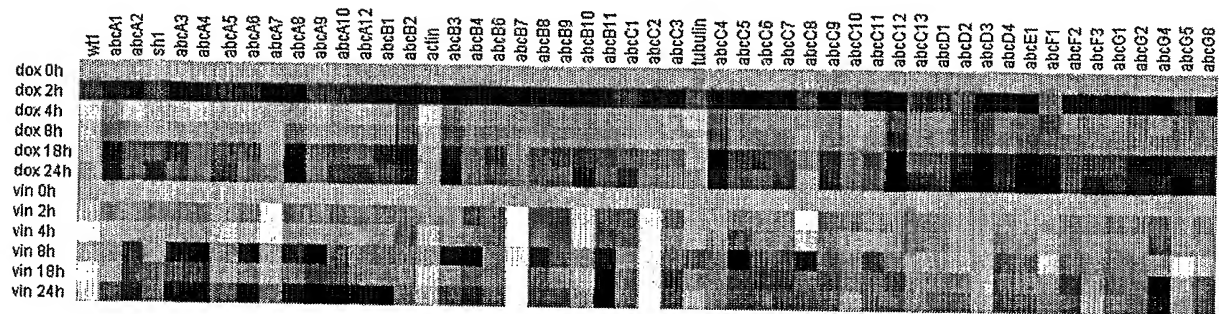
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Figure 57



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Figure 58



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Figure 59

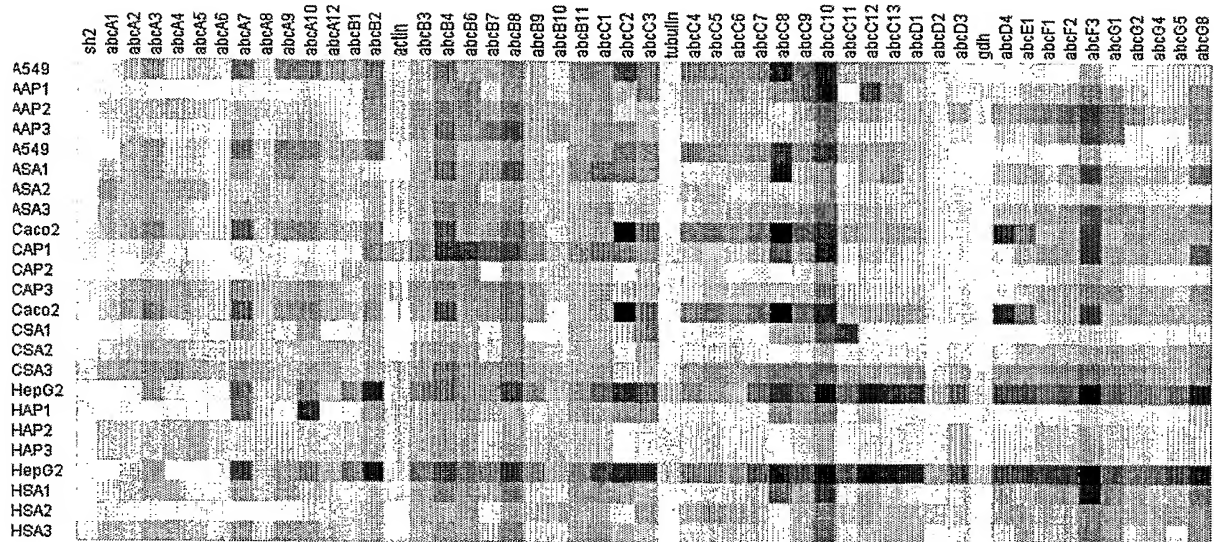


Figure 60



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Figure 61

